

What Is Claimed Is:

1. A gearbox actuator comprising:  
  
a selector shaft driven by a drive and arranged in a housing upon which are arranged a shift finger and disengaging shaped elements that operate gearshift rails; and,  
  
a bearing arrangement operatively arranged to support and guide the gearshift rails.
2. The gearbox actuator according to Claim 1, wherein the bearing arrangement is formed by jibs that receive the gearshift rails between them.
3. The gearbox actuator according to Claim 2, wherein the housing comprises an attachment part operatively arranged to be attached to a gear housing of a gearbox where said jibs protrude through an opening or recess in the gear housing into the gearbox actuator housing.
4. The gearbox actuator according to Claim 2, wherein the attachment part and the jibs have the shape of an injection molded part.
5. The gearbox actuator according to Claim 2, wherein there are provided two upper jibs and two lower jibs that are opposite each other with respect to the selector shaft.
6. The gearbox actuator according to Claim 2, wherein two jibs are provided.
7. The gearbox actuator according to Claim 2, wherein two jibs at a time are symmetrically opposite each other with respect to the selector shaft.
8. The gearbox actuator according to Claim 2, wherein the jibs have guide shoe parts at their ends resting against the gearshift rails.
9. The gearbox actuator according to Claim 2, wherein the housing, the bearing arrangement for the selector shaft and the jibs are made as an injection molded part.